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- 1. An improved \golf putter head which comprises:
- a face for striking a golf ball;
- a sole for positioning adjacent to a golf green surface;
- a back surface;

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a top surface lying substantially parallel to said sole; an elongated neck extending from said top surface for supporting a hosel with said hosel positioned forward of said face;

said hosel having an opening for receiving a putter shaft; said hosel opening having an edge lying substantially parallel with said top surface;

said head having a thickness between face and back surfaces in a central region of less than 20% of the thicknesses in heel and toe regions;

said sole having a thickness in said central region of less than about 20% thicknesses in said heel and toe regions

said sole having a cut out region extending from said back surface toward said face;

said cut out region having parallel recessed edges; and an insert configured to fill at least some of said cut out region and having edges configured to slide into said recessed edges.

2. The putter according to claim 1 wherein the density of said insert material differs from the density of said club head

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material.

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- 3. The putter according to claim 1 wherein said overall putter head weight with said insert is from about 275 to 400 grams and said insert weight is from about 5 to 150 grams.
- 4. The putter according to claim 1 wherein said insert has a width of from about 0.25 to 2 inches, a thickness of from about 0.0625 and 0.5 inch and a length of from about 0.5 to 3 inches.
- 5. The putter according to claim 1 wherein said head is formed from stainless steel and said insert is formed from aluminum.
- 6. The putter according to claim 1 wherein said neck has at least one recess parallel to said elongation.
- 7. The putter according to claim 1 wherein said heal and toe regions have thicknesses at least about 1 inch, from face to back surface.
- 8. The putter according to claim 1 wherein said heal and toe regions have thicknesses of at least about 1.5 inches, from sole to top surface.
 - 9. An improved golf putter head which comprises:
 - a face for striking a golf ball;
 - a sole for positioning adjacent to a golf green surface;
 - a back surface;
 - a top surface lying substantially parallel to said sole; an elongated neck extending from said top surface for

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supporting a hosel with said hosel positioned forward of said face;

said neck having at least one recess parallel to said elongation;

said hosel having an opening for receiving a putter shaft;
said hosel opening lying substantially parallel with said
top surface;

said head having a thickness between face and back surfaces in a central region of less than about 20% of the thicknesses in heel and toe regions;

said sole having a thickness in said central region of from about 0.0625 and 0.5 inch and thicknesses in said heel and toe regions of at least about three the thickness of said central region;

said sole having a cut out region extending from said back
surface toward said face;

said cut out region having parallel recessed edges extending from said back surface; and

an insert configured to fill at least some of said cut out region and having edges configured to slide into said recessed edges.

10. The putter according to claim 9 wherein the density of said insert material differs from the density of said club head

material.

- 11. The putter according to claim 9 wherein said overall putter head weight with said insert is from about 275 to 400 grams and said insert weight is from about 5 to 150 grams.
- 12. The putter according to claim 9 wherein said insert is formed from a material selected from the group consisting of aluminum, plastics such as acetyl, epoxy and acrylic resins, copper, graphite, steel, depleted uranium, tungsten, brass, titanium, wood, rubber, fiber filled plastics, foamed plastics and mixtures and combinations thereof.
- 13. The putter according to claim 9 wherein said head is formed from stainless steel and said insert is formed from aluminum.